

Unit 4 Pre-Test

Name	Class
Teacher	Date

6.EE.1  
=====

Evaluate the following expressions

$10^2 - (6 + 4^3)$

- A 82
- B 30
- C 2
- D 70

$(8 + 4)^2 \cdot 3^3$

- A 144
- B 648
- C 216
- D 3,888

6.EE.2a  
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Choose the correct expression for each phrase.

The product of y and 9

- A 9y
- B y/9
- C y+9
- D 9-y

Three times thirteen decreased by x

- A 13x -3
- B (3\*13)-x
- C 3x-13
- D x/3 - 13

6.EE.2b  
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Identify the following parts of the expression below.

$(8x + 4y)^2 \cdot 7^3$

What is the 8 called?

- A exponent
- B operation
- C variable
- D coefficient

What is the y called?

- A exponent
- B operation
- C variable
- D coefficient

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6.EE.2c

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Use the formulas below to find the volume and surface area of the rectangular prism with the following dimensions.

*Length = 4 inches. Width = 5 inches. Height = 2 inches.*

*Volume =  $l * w * h$*

*Surface Area =  $2(l*w) + 2(l*h) + 2(w*h)$*

What is the volume of the rectangular prism?

- A     30 in<sup>3</sup>
- B     40 in<sup>3</sup>
- C     45 in<sup>3</sup>
- D     50 in<sup>3</sup>

What is the surface area of the rectangular prism?

- A     76 in<sup>2</sup>
- B     44 in<sup>2</sup>
- C     16 in<sup>2</sup>
- D     75 in<sup>2</sup>

6.EE.3

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Use the distributive property to create an equivalent expression for each of the following.

$3(x-5)$

- A      $3x-15$
- B      $3x+15$
- C      $3x-5$
- D      $3x+5$

$24 + 8x$

- A      $8(24+x)$
- B      $8(3+x)$
- C      $x(24+8)$
- D      $3(x+24)$

6.EE.4

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Determine which of the following expressions area equivalent.

$8k + 4x + 2$                       and                       $4 (2k + x) + 2$

- A     Yes
- B     No

$7(3f+2)-9f+3x5$                       and                       $12f+85$

- A     Yes
- B     No